

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP01/07080

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H01L21/205, H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H01L21/205, H01L33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2001, Japanese Registered Utility Model Gazette 1994-2001, Japanese Gazette Containing the Utility Model 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 9-134878 A (MATSUSHITA ELECTRONICS CORP.), 20.May.1997 (20.05.97), line 46, column 7 to line 14, column 8, line 5, column 9 to line 14 column 9	1-11, 19-26, 34-36, 44-53 , 59, 85-88
Y	(Family:None)	12-18, 27-33 37-43, 60-66
A		54-58, 67-84
Y	JP 2000-68559 A (MITSUBISHI CABLE IND. LTD.), 3.March.2000 (03.03.00), line 2, column 1 to line 14, column 1, Fig 1 (Family:None)	12-18, 27-33 37-43, 60-66
Y	JP 11-261169 A (SONY CORP.), 24.September.1999 (24.09.99), Figs 1-8 (Family:None)	12-18, 27-33 37-43, 60-66
A	JP 5-109621 A (ASAHI CHEM. IND. CO. LTD.) 30.April.1993 (30.04.93), (Family:None)	1-88



Further documents are listed in the continuation of Box C.



See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

06.09.01

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18.09.01

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-215035 A (TOSHIBA K.K.), 11. August. 1998 (11.08.98), (Family:None)	1-88
A	JP 63-239936 A (CANON K.K.), 5. October. 1988 (05.10.88), (Family:None)	1-88
A	JP 11-135832 A (TOYODA GOSEI K.K.), 21. May. 1999 (21.05.99), (Family:None)	1-88
A	JP 60-173829 A (NIPPON TELEGRAPH & TELEPHONE CORP.), 7. September. 1985 (07.09.85), (Family:None)	1-88
E, X	JP 2001-57463 A (SHARP K.K.), 27. February. 2001 (27.02.01), line 23, column 14 to line 8, column 15 (Family:None)	1-11, 19-26 34-36, 44-53, 59, 85-88